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| 1. The perimeter of a square is 48 inches. What is the length of the diagonal? | | Mr. Rasczyk has a tree farm. Half the farm is trees that he uses to make pencils, the other half are maple trees that he uses to make “Raz’s Sweet Love Maple Syrup.” The farm is a Square divided into 2 sections along a 400 foot diagonal. What is the area of the Maple Tree Farm section? | |
| 3. An isosceles right triangle has a hypotenuse of 8.   1. What is the length of the legs of the triangle? 2. What is the area of this triangle? | | Tristan has a square backyard with an area of 225ft sq. He started to plant grass seed but only did half his yard. (He wanted to play Fortnite instead) What is the perimeter of the Grass section of the backyard? | |

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| 5. Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.19.57 PM.png  a, What is the radius of the circle?  b. What is the side length of the square? | 6. Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.20.08 PM.png  a. What is the radius of the circle?  b. What is the side length of the square? |
| 7. Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.19.24 PM.png  a. What is the radius of the circle?  b. What is the side length of the square? | 8. Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.21.41 PM.png  a. What is the radius of the circle?  b. What is the side length of the square? |
| 9. Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.21.48 PM.png  a. What is the radius of the circle?  b. What is the side length of the square? | 10. Macintosh HD:Users:rmitrovich:Desktop:Screen Shot 2016-03-13 at 11.29.03 PM.png  a. What is the radius of the circle? |

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| 11. Go back to the figure you drew for #7.  a, What is the area of the circle?  b. What is the area of the square? | 14. Go back to the figure you drew for #8.  a. What is the area of the larger circle?  b. What is the area of the square? |
| 15. Go back to the figure you drew for #9.  a. What is the area of the circle?  b. What is the area of the square? | 16. Go back to the figure you drew for #9.  a. What is the area of the circle?  b. What is the area of the square? |
| 17. Go back to the figure you drew for #9.  a. What is the area of the circle?  b. What is the area of the square? | 18. Go back to the figure you drew for #10.  a. What is the area of the circle?  b. What is the area of the inner square?  c. What is the area of the outer square? |

Review:

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| 19. How do you find area of a circle? | 20. How do you find circumference of a circle? |
| 21. How are radius and diameter related? | 22. Explain the difference between inscribed and circumscribed shapes. |
| 23. If the diameter is 18.  a. What is the area of a circle?  b. What is the circumference? | 26. If the area of a circle is 25π.  a. What is the radius?  b. Draw a picture.  c. What is the circumference? |